## Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

## **Listing of Claims:**

## 1-3. (canceled)

4. (currently amended) The method of claim 1A method for inhibiting angiogenesis in a non-cancerous tissue comprising administering to a subject an effective angiogenesis inhibiting amount of a vanadium compound having, wherein the vanadium compound has the following structure:

$$R_3$$
 $R_1$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_2$ 

wherein

 $R_1$  and  $R_2$  are each independently a monodentate ligand or together form a bidentate ligand; and

R<sub>3</sub> and R<sub>4</sub> are each independently a cyclopentadienyl ring, wherein each cyclopentadienyl ring is optionally substituted with one or more (C<sub>1</sub>-C<sub>3</sub>)alkyl.

- 5. (withdrawn) The method of claim 4, wherein  $R_1$  and  $R_2$  are each independently a monodentate ligand selected from the group consisting of halo,  $OH_2$ ,  $O_3SCF_3$ ,  $N_3$ , CN, OCN, SCN, SeCN, and a cyclopentadienyl ring, wherein each cyclopentadienyl ring is optionally substituted with one or more  $(C_1-C_3)$  alkyl.
- 6. (withdrawn) The method of claim 5, wherein  $R_1$  and  $R_2$  are each independently halo.
- 7. (withdrawn) The method of claim 6, wherein halo is chloro, bromo, or iodo.

Application No. 09/713,780 Amendment dated August 31, 2004 Reply to Office Action of May 18,2004

- 8. (withdrawn) The method of claim 6, wherein halo is chloro.
- 9. (currently amended) The method of claim 4, wherein R<sub>1</sub> and R<sub>2</sub> together form a bidentate ligand selected from the group consisting of <u>acetonylacetonate</u>, 2,2' <u>bipyridine</u>, <u>hexafluroacetylacetonate</u>, <u>catecholate</u>, <u>diethyl dithio carbamate</u>, <u>N-phenyl berzohydroxamic</u> <u>acids</u>, <u>acethydroxamic acid</u>, and <u>salts</u> <u>acac</u>, <u>Bpy</u>, <u>Hfacac</u>, <u>Cat</u>, <u>Dte</u>, <u>PH</u>, <u>H and derivatives</u> thereof.
- 10. (original) The method of claim 9, wherein the bidentate ligand is acceptative acceptance or a salt thereof.
- 11. (withdrawn) The method of claim 1, wherein the vanadium compound has the following structure:

$$\begin{array}{c|c}
R_4 & O \\
R_3 & I \\
R_5 & R_5
\end{array}$$

wherein

 $R_1$  and  $R_2$  are each independently a monodentate ligand or together form a bidentate ligand;

R<sub>3</sub> and R<sub>4</sub> together form a bidentate ligand; and R<sub>5</sub> is a monodentate ligand, or is absent.

12. (withdrawn) The method of claim 11, wherein  $R_1$  and  $R_2$  are each independently a monodentate ligand selected from the group consisting of halo,  $OH_2$ ,  $O_3SCF_3$ ,  $N_3$ , CN, OCN, SCN, SeCN, and a cyclopentadienyl ring, wherein each cyclopentadienyl ring is optionally substituted with one or more  $(C_1-C_3)$ alkyl.

Application No. 09/713,780 Amendment dated August 31, 2004 Reply to Office Action of May 18,2004

- 13. (withdrawn) The method of claim 12, wherein, R<sub>3</sub> and R<sub>4</sub> together form a bidentate ligand selected from the group consisting of <u>acetonylacetonate</u>, 2,2' <u>bipyridine</u>, <u>hexafluroacetylacetonate</u>, <u>catecholate</u>, <u>diethyl dithio carbamate</u>, <u>N-phenyl benzohydroxamic acid</u>, <u>and salts acae</u>, <u>Bpy</u>, <u>Hfacae</u>, <u>Cat</u>, <u>Dte</u>, <u>PH</u>, H and <u>derivatives</u>-thereof.
- 14. (withdrawn) The method of claim 11, wherein R<sub>1</sub> and R<sub>2</sub> together form a bidentate ligand selected from the group consisting of <u>acetonylacetonate</u>, 2,2' <u>bipyridine</u>, <u>hexafluroacetylacetonate</u>, <u>catecholate</u>, <u>diethyl dithio carbamate</u>, <u>N-phenyl benzohydroxamic</u> <u>acids</u>, <u>acethydroxamic acid</u>, <u>and salts acac</u>, <u>Bpy</u>, <u>Hfacac</u>, <u>Cat</u>, <u>Dto</u>, <u>PH</u>, <u>H and derivatives</u> thereof.
- 15. (withdrawn) The method of claim 1, wherein said vanadium compound is: VCp<sub>2</sub>Cl<sub>2</sub>, VCp<sub>2</sub>Br<sub>2</sub>, VCp<sub>2</sub>I<sub>2</sub>, VCp<sub>2</sub>(N3)<sub>2</sub>, VCp<sub>2</sub>(CN)<sub>2</sub>, VCp<sub>2</sub>(NCO)<sub>2</sub>, VCp<sub>2</sub>(NCO)<sub>2</sub>, VCp<sub>2</sub>(NCO)<sub>2</sub>, VCp<sub>2</sub>(NCS)<sub>2</sub>, VCp<sub>2</sub>(NCS)<sub>2</sub>, VCp<sub>2</sub>Cl (CH<sub>3</sub>CN)(FeCl<sub>4</sub>), VCp<sub>2</sub>(O<sub>3</sub>SCF<sub>3</sub>)<sub>2</sub>, V(MeCp)<sub>2</sub>Cl<sub>2</sub>, V(Me<sub>5</sub>Cp)<sub>2</sub>Cl<sub>2</sub>, VCp<sub>2</sub>(acac), VCp<sub>2</sub>(hf-acac), VCp<sub>2</sub>(bpy), VCp<sub>2</sub>(cat), VCp<sub>2</sub>(d<sub>1</sub>c), VCp<sub>2</sub>PH, or VCp<sub>2</sub>H.
- (withdrawn) The method of claim 1, wherein said vanadium compound is: [VO(phen)], [VO(phen)<sub>2</sub>], [VO(Me<sub>2</sub>-phen)], [VO(Me<sub>2</sub>-phen)<sub>2</sub>], [VO(Cl-phen)], [VO(bipy)], [VO(bipy)<sub>2</sub>], [VO(Me<sub>2</sub>-bipy)], [VO(Me<sub>2</sub>-bipy)<sub>2</sub>], and [VO(Br,OH-acph)<sub>2</sub>].

17-24. (canceled)

- 25. (currently amended) The method of claim  $\frac{1}{2}$  wherein the non-cancerous tissue is a vascular tissue.
- 26. (previously presented) The method of claim 16 wherein the vascular tissue is a coronary artery.

6123329081

Application No. 09/713,780 Amendment dated August 31, 2004 Reply to Office Action of May 18,2004

- 27. (currently amended) The method of claim 4 4 wherein the non-cancerous tissue is a retina
- 28. (currently amended) The method of claim 4 4 wherein the non-cancerous tissue is a tumor
- 29. (currently amended) The method of claim 1928 wherein the tumor is a hemangioma.
- 30. (new) The method of claim 25, wherein the angiogenesis is associated with injury to the vascular tissue.
- 31. (new) The method of claim 30, wherein the angiogenesis is associated with restenosis following injury to the vascular tissue.
- 32. (new) The method of claim 25, wherein the vascular tissue is a vessel.
- 33. (new) The method of claim 32, wherein the vessel is a coronary artery.
- 34. (new) The method of claim 32, wherein the injury to the vessel is associated with balloon angioplasty, vessel stent, rotational and directional atherectomy, or laser angioplasty.
- 35. (new) The method of claim 27, wherein the angiogenesis is associated with retinopathy.
- 36. (new) The method of claim 35, wherein the retinopathy is associated with diabetes.